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PCT International Application

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AMENDED CLAIMS

1. A medium-carrying hose, preferably for pressure medium and for use in e.g. engine compartments, the wall of the hose comprising at least one wall portion (5) which is connected with at least one expansion portion (4) to form a continuous hose casing, so that the circumference of the hose is variable between a minimum value, when the expansion portion (4) is unexpanded, and a maximum value, when the expansion portion (4) is maximally expanded and said expanded portion (4) extends in the transverse and the longitudinal direction of the hose, the wall portions (5) being displaced relative to each other in the transverse as well as the longitudinal direction of the hose as the circumference increases and the expansion portion (4) expands,
c h a r a c t e r i s e d in
that the wall and expansion portions (5, 4) are differently formed in different parts (1, 2, 3) along the hose in order to control, during expansion or vibration of the hose, the direction of motion of the different parts (1, 2, 3) in a desirable manner.

2. A medium-carrying hose according to claim 1,
c h a r a c t e r i s e d in
that the relationships of the wall and expansion portions (5, 4) are different in different parts along the hose (1, 2, 3) in order to control, during expansion of the hose, the direction of motion of the different parts (1, 2, 3) in a desirable manner.

3. A medium-carrying hose according to claim 1 or 2,
c h a r a c t e r i s e d in
that the hose is preformed to have a certain extent in the longitudinal direction, and that the design of, and the relationships of, the wall and expansion portions (5, 4) in the hose casing in each part of the hose is adapted to the preform of the hose in the respective parts (1, 2, 3) of the hose.

4. A medium-carrying hose according to any one of claims 1-3,
c h a r a c t e r i s e d in
that the expansion portion is a groove in the hose casing when this is in an unexpanded state.

5. A medium-carrying hose according to claim 4,
c h a r a c t e r i s e d in
that the groove is helically turned seen in the longitudinal direction of the hose.

6. A medium-carrying hose according to claim 5,
c h a r a c t e r i s e d in
that the helical groove has a varying number of turns per unit of length of the hose.

7. A medium-carrying hose according to claim 5 or 6,
c h a r a c t e r i s e d in
that the helical groove has different direction of turning in different parts of the hose.

8. A medium-carrying hose according to any one of claims 5-7,
c h a r a c t e r i s e d in
that the cross-sectional shape of the groove is different in different parts of the hose.

9. A medium-carrying hose according to any one of claims 1-8,
c h a r a c t e r i s e d in
that the hose has at least two expansion portions, which are uniformly distributed along the circumference of the hose casing.

10. A medium-carrying hose according to any one of claims 1-9,
c h a r a c t e r i s e d in
that the hose has four wall portions in addition to four expansion portions, which are alternatingly arranged along the circumference of the hose casing.

11. A medium-carrying hose according to any one of claims 1-10,
c h a r a c t e r i s e d in
that the hose along its circumference is provided with an elastic material.

12. A medium-carrying hose according to any one of claims 1-10,
c h a r a c t e r i s e d in
that the hose along its inner circumference is provided with an elastic material.

13. A method for manufacturing a hose according to claim 1 by extruding the materials forming the hose,
c h a r a c t e r i s e d by
extruding, in addition to the hose material and together with this, a form material, which is adapted to be a preform for the hose material for the desired configuration of the expansion portions and wall portions.

14. A method according to claim 13,
c h a r a c t e r i s e d in
that the form material is arranged along the outer circumference of the hose material.

15. A method according to claim 13 or 14,
c h a r a c t e r i s e d in
that the form material is accumulated in the portions of the hose material which are adapted to form expansion portions.

16. A method according to any one of claims 13-15,
c h a r a c t e r i s e d in
that the form material is an elastic material, which extends along the circumference of the hose material.

17. A method according to claim 16,
c h a r a c t e r i s e d in
that the form material in the completed hose is arranged along the circumference of the hose material and provides a smooth outer face for the hose.

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18. A method according to any one of claims 13-16, c h a r a c t e r i s e d in that the form material is removed from the hose material in order to form the completed hose.

19. A method according to claim 18, c h a r a c t e r i s e d in that the form material has the property that it can be washed away from the hose material.